

PROPOSED EXAMINER'S AMENDMENT*U.S. Serial No 10/757,321**March 7, 2006*

1. (Currently Amended) A process to produce compounds represented by a formula (II);



(II)

or both

wherein

R₁ represents hydrogen, halogeno, alkyl optionally substituted by alkoxy, alkylthio or halogen, alkoxy optionally substituted by halogen or aryl, a group having an alicyclic structure, a group represented by R₃S(O)_q, a group represented by R₄R₅N, a group represented by R₆C(=O), nitrile, nitro, a group represented by R₇C(=NR₈), aryl or aryloxy optionally substituted by alkoxy, halogen or alkyl which may be substituted by halogen, phenoxy or heteroaryloxy which may be substituted by haloalkyl, alkyl, alkoxy, haloalkoxy, amino, nitrile, alkylthio, alkylsulfonyl or alkylsulfinyl, or aralkyl optionally substituted by halogen,

R₂ represents alkyl optionally substituted by alkoxy, alkylthio or halogen, alkoxy optionally substituted by halogen or aryl, a group having an alicyclic structure, optionally substituted amino, aryl optionally substituted by alkoxy, halogen or alkyl which may be substituted by halogen, phenoxy or heteroaryloxy which may be substituted by haloalkyl, alkyl, alkoxy, haloalkoxy, amino, nitrile, alkylthio, alkylsulfonyl or alkylsulfinyl, optionally substituted heterocyclic or heteroaryl having a 5 to 7 membered mono cyclic or 9 to 11 membered fused ring containing 1 to 3 nitrogen or oxygen, or aralkyl optionally substituted by halogen,

R₃, R₄ and R₅ each independently represents alkyl optionally substituted by alkoxy, alkylthio or halogen, aryl optionally substituted by alkoxy, halogen or alkyl which may be substituted by halogen, phenoxy or heteroaryloxy which may

be substituted by haloalkyl, alkyl, alkoxy, haloalkoxy, amino, nitrile, alkylthio, alkylsulfonyl or alkylsulfinyl, optionally substituted heterocyclic or heteroaryl having a 5 to 7 membered mono cyclic or 9 to 11 membered fused ring containing 1 to 3 nitrogen or oxygen, or aralkyl optionally substituted by halogen,

R₄ and R₇ each independently represents alkyl optionally substituted by alkoxy, alkylthio or halogen, alkoxy optionally substituted by halogen or aryl, a group having an alicyclic structure, optionally substituted amino, aryl optionally substituted by alkoxy, halogen or alkyl which may be substituted by halogen, phenoxy or heteroaryloxy which may be substituted by haloalkyl, alkyl, alkoxy, haloalkoxy, amino, nitrile, alkylthio, alkylsulfonyl or alkylsulfinyl, optionally substituted heterocyclic or heteroaryl having a 5 to 7 membered mono cyclic or 9 to 11 membered fused ring containing 1 to 3 nitrogen or oxygen, or aralkyl optionally substituted by halogen,

R₈ represents alkyl optionally substituted by alkoxy, alkylthio or halogen, alkoxy optionally substituted by halogen or aryl, nitrile, nitro, aryl optionally substituted by alkoxy, halogen or alkyl which may be substituted by halogen, phenoxy or heteroaryloxy which may be substituted by haloalkyl, alkyl, alkoxy, haloalkoxy, amino, nitrile, alkylthio, alkylsulfonyl or alkylsulfinyl, optionally substituted heterocyclic or heteroaryl having a 5 to 7 membered mono cyclic or 9 to 11 membered fused ring containing 1 to 3 nitrogen or oxygen, or aralkyl optionally substituted by halogen,

q represents 0, 1 or 2, and R₉ and R₁₀ each independently represents hydrogen, lower alkyl or aryl optionally substituted by alkoxy, halogen or alkyl which may be substituted by halogen, phenoxy or heteroaryloxy which may be substituted by haloalkyl, alkyl, alkoxy, haloalkoxy, amino, nitrile, alkylthio, alkylsulfonyl or alkylsulfinyl, and

R₁ and R₂ each represents a group which may bond to jointly form a ring, and

X represents oxygen or a group represented by a formula of NR₉R₁₀,
~~comprising reacting characterized in that the compound is subjected to a reaction with~~ a methylene compound represented by a formula (I);



(I)

wherein R1, R2 and X are as defined above, with either a formic acid ester or an orthoformic acid ester in the presence of a Lewis acid and a base.